

**Board of Selectmen  
Tuesday, May 28, 2019  
Town Hall (Clark Rm)**

The Board of Selectmen met on Tuesday, May 28, 2019 at 7:00 p.m. at the Town Hall (Clark Room). Those present were Chairwoman Kate Reid, Alan Lewis, Barney Arnold, Luke Ascolillo and Nathan Brown.

***Community Input***

***Joint Appointment with Library Trustees to fill vacancy***

The Board of Selectmen met with Gleason Public Library Trustee Christen Stevens regarding the the vacancy on the Library Trustees as a result of the resignation of Steve Golson effective May 27, 2019. Library Trustee Priscilla Stevens was not available to attend the meeting due to a previous commitment.

The Gleason Public Library Trustees voted to recommend Dale Joachim (998 Bedford Rd) to fill the position of Trustee being vacated by Steve Golson.

Mr. Joachim was present to introduce himself to the Board of Selectmen. He has children in the Concord-Carlisle High School. The library is currently engaged in long-term and interior space planning intended to upgrade the Gleason Library's plant and services to meet the community's needs in the 21st century. The Trustees feel that Dale's expertise in building and designing projects, gained through his position as a Director of non-profit organization Haiti Projects, Inc., will be of great use as the library goes forward with this process, and that his viewpoint will complement, as well as challenge the board of Trustees to maintain and improve this vital Carlisle institution.

Town Administrator Timothy Goddard confirmed this appointment will be valid until next Town election 2020 and that the minimum voting members to make this appointment has been satisfied.

On the motion made by Nathan Brown and seconded by Alan Lewis, it was unanimously **VOTED** (6-0) that the Board of Selectmen and the remaining members of the Library Trustees appoint Dale Joachim (998 Bedford Road) to fill the position of Trustee being vacated by Steve Golson through the May 2020 Annual Town Election.

ROLL CALL VOTE: N. Brown-Aye, B. Arnold-Aye, L. Ascolillo-Aye, K. Reid-Aye, and A. Lewis-Aye, and Library Trustee Christine Stevens-Aye.

***Timbernook program – Request to use Conant property***

TimberNook is an outdoor program that offers all children therapeutic benefits through creative outdoor play. The programs integrate sensory experiences, imagination, and nature inspiring children to play, learn, and explore through stories, games, and unique experiences. The program was developed by Angela Hanscom, a New Hampshire based Occupational Therapist based on the philosophy that today, children are over scheduled, indoors too much, have too many adult directed activities and too few opportunities to use their imaginations and learn through experience. TimberNook sets an age appropriate stage for fun and experiences in the woods, provides materials hidden throughout the woods and then sets the children free to play, explore, learn, organize themselves, resolve their own conflicts, experience a variety of sensory input and challenge their fine and gross motor skills.

There would be no more than 12 kids and 2 adults in the program per day. The staff are present but unobtrusive and only intervene when necessary.

Eric Boroush, Director of Operations at Minute Man Arc confirmed that Minute Man Arc has the license to provide TimberNook in Middlesex County and there has been great local interest. Mr. Boroush confirmed that Minute Man Arc will provide the necessary liability coverage.

If there were to be a weather emergency such as a tornado, to meet the state regulations, they would need to have an emergency shelter which would be Carlisle Town Hall for use of the Conant Land and when the threat passes return to the woods or have children picked up by their parents when the danger has passed.

On the motion made by Barney Arnold and seconded by Alan Lewis, it was voted unanimously to approve the use of the Conant Property by the TimberNook Sensory Nature Programs beginning September 1, 2019 through March 30, 2020 contingent upon a Certificate of General Liability showing proper insurance coverage and naming the Town of Carlisle as an additional insured.

***Fire Dept. – Request to move fire horn test back to 12:00pm***

The Board of Selectmen met with Fire Chief Bryan Sorrows and Deputy Chief Burt Rubenstein regarding a request to return the fire horn testing to 12:00pm. Chief Sorrows stated that it is his preference is to test the horn at 12pm when staff is available to address any potential issues.

Deputy Chief Rubenstein stated that fire horn text serves as a backup for emergency call pagers therefore must be regularly tested.

Kate Reid stated that she was in receipt of an online survey on the topic of changing the fire horn test time and many responses were either not in favor of changing the time or suggested not doing it all.

Chief Sorrow stated he has been approached by more than one resident asking for the return of the midday fire horn.

Vanessa Moroney (Bedford Road) expressed her disappointment after she participated in a town-wide discussion and the amount of time placed on this issue. In 2015, the Board of Selectmen and Fire Chief Flannery decided to move the fire horn test from 12:00pm to 5:00pm after receiving input from residents it was agreed that 5pm would be less disruptive to the community, and families living near town center.

On the motion made by Alan Lewis and seconded by Luke Ascolillo, it was ***VOTED*** (4-1) approve the request of the Fire Chief to move the fire horn test to 12:00pm. (*In favor of motion: N. Brown, L. Ascolillo, A. Lewis, and K. Reid. Opposed: B. Arnold.*)

**Kate Reid polled the members of the**

***CETF grant program update***

The Board of Selectmen met with chair Robert Zogg from the Carlisle Energy Task Force (CETF), The CETF had a strong year, but faces some significant challenges for FY 2020. There are four CETF members not seeking reappointment in July. The CETF seeks more support to fulfill its new mission statement.

**Mission Statement as adopted Nov. 27, 2018.**

1. Help the Town establish goals and approaches for lowering energy use and expanding the use of renewable energy, with a focus on lowering greenhouse gas emissions.

2. Recommend to the Select Board municipal bylaws and amendments to the bylaws that reduce energy use, and encourage the use and generation of renewable energy.
3. Help Town departments, residents, businesses, and organizations learn about, evaluate, and implement measures to lower energy use, and expand use of renewable energy.
4. Manage the Town's relationship with the Massachusetts Green Communities and other renewable-energy and energy-efficiency programs, including applying for grants, managing the grant projects, and reporting to the grant programs.
5. Create a baseline to track and periodically evaluate community-wide energy use, cost, and associated greenhouse gas emissions. "Community-wide" energy use includes residential, municipal, commercial/organizational, and agricultural uses for both transportation and stationary applications.

•Growing opportunities to leverage Green Communities (and possibly other programs)

•Opportunity to serve as a model small community for tracking and pursuing emissions goals

Through Green Communities (GC) we have lowered municipal greenhouse gas emissions by about 26% (FY2018 vs. FY2009). Carlisle may have reached the energy-savings threshold to be eligible for greater levels of support.

Green Communities Grants & Utilities received through 2019:

DPW:	\$ 12,031	Fire Station:	\$4,426
Town Hall:	\$128,975	Library:	\$26,070
Police Station:	\$12,556	School:	\$515,215
Streetlights:	\$69,851	Waste Water:	<u>\$11,363</u>

**Total: \$787,920**

Reductions in operation costs due to Green Community Grants: The Massachusetts Department of Energy Resources, Green Communities Division provides grants to help municipalities reduce energy use and costs by implementing clean energy projects in municipal buildings, facilities, and schools. Carlisle has been a Green Communities member since 2011.

Mass Energy Insight (MEI) Database. Accessed 05-21-2019.

	<u>Saved on Operating Costs through Jun 2019</u>	<u>Reductions due to Green Community</u>
DPW	\$9,805	\$3,546
FIRE STATION:	\$4,796	\$979
TOWN HALL:	\$56,571	\$10,937
POLICE STATION:	\$4,747	\$1,298
LIBRARY:	\$19,142	\$5,247
SCHOOL:	\$309,621	\$72,002
WWTP:	\$2,095	\$838
STREETLIGHTS:	<u>\$47,564</u>	<u>\$23,199</u>
	<b>\$434,839</b>	<b>\$20,934</b>

If Carlisle establishes emissions goals, carbon reduction must become central to all municipal decision-making.

## Options for Emissions Goals

**Option 1**  
**Align with MA Global Warming  
Solutions Act of 2008**

**5% avg. annual reduction**

By 2050, 80% town-wide reduction in  
Greenhouse Gas (GHG) emissions  
relative to 1990 emissions

By 2030, 40% town-wide reduction

**Option 2**  
**Align with Intergovernmental Panel  
on Climate Change (2018)**

**10% avg. annual reduction**

By 2050, 95% town-wide reduction  
in GHG emissions relative to 2017 a, c

By 2030, 65% town-wide reduction

**Option 3**  
**No quantified  
emissions goals**

Town-wide emissions include residential, commercial, municipal, and agricultural emissions from both transportation and the built environment. Consistent with the year-2050 goal of the MA Global Warming Solutions Act of 2008. Per IPCC SR1.5, October 8, 2018, limiting warming to 1.5°C implies reaching net-zero emissions around 2050.

### Goals Next Steps

1. Vet draft Goals Report
2. Assist Master Plan Steering Committee with soliciting community input
3. Depending on community input:
4. Select goals
5. Refine conceptual pathway
  - Energy Efficiency
  - Electrification
  - Renewable Generation
  - Carbon Sequestration
6. Document in Master Plan
7. Launch program

## ***Review/Approve 2019 Annual Appointments***

### **1. Appointment of Public Officials**

On the motion made by Nathan Brown and seconded by Luke Ascolillo, it was unanimously ***VOTED*** to approve the following list of Town Officials effective July 1, 2019 to June 30, 2020 as follows:

Timothy D. Goddard  
**Town Administrator**

Bonnie Fleck  
**Finance Director, Treas.& Collector**

Priscilla Dumka  
**Town Accountant**

Miyares and Harrington  
**Town Counsel**

Mirick O'Connell  
**Labor Counsel**

Bryan Sorrows  
**Fire Chief**

John Fisher  
**Police Chief**

Joseph Topol

**Constable**

Matthew Svatek  
**Dog Control Officer**

Lawrence Sorli  
**Dog Control Officer**

Gary R. Davis  
**Superintendent of Public Works**

Stephen Bastek  
**Facilities Manager**

Jon Metivier  
**Building Commissioner**

James Powderly  
**Inspector of Plumbing**

Ralph Metivier  
**Pump & Well Inspector**

Vincent Chant  
**Wiring Inspector**

Lawrence Sorli  
**Inspector of Animals**

Deborah A. Toher  
**Inspector of Animals**

Deborah A. Toher  
**Field Driver**

Tom Ratcliffe  
**Keeper of Town Flag**

Koning, Robert Jr.  
**Town Clock Keeper**

Timothy D. Goddard  
**Procurement Officer**  
**Personnel Administrator**

## 2. Appointment of Town Board and Committees

Kate Reid explained that the draft list of Annual Appointment of Town Boards and Committees will be for review purposes this evening and appointments to be conducted on June 11, 2019.

The Board reviewed the list of retiring board members and discussed revisiting membership term expirations and conducting exit interviews for feedback to expand volunteer service.

### ***Review of Board of Selectmen FY2020 Liaison Assignments:***

The Board of Selectmen reviewed the proposed list of FY 2020 Board of Selectmen Liaisons Assignments as follows:

#### **Departments**

Building Inspection Services  
 Communications Center  
 Council on Aging  
 Department of Public Works  
 Finance Director  
 Fire Department  
 Library  
 Police Department  
 Town Accountant  
 Town Clerk

#### **Assignments**

Nathan  
 Alan  
 Alan  
 Nathan  
 Kate  
 Nathan  
 Barney  
 Luke  
 Nathan  
 Kate

#### **Boards and Commissions and their Committees**

Agriculture Commission	Alan
Board of Appeals	Alan
Board of Assessors	Luke
Board of Health	Alan
Carlisle Public School	Barney/Luke
CCHS	Barney
Conservation Commission	Luke
Historical Commission	Alan
Personnel Board	Nathan
Planning Board	Kate
Master Plan Steering Committee - BoS Member	Barney Arnold
Recreation Commission	Nathan

**Committees appointed by BOS**

Audit Committee	Barney
Conservation Restriction Advisory Committee	Luke
Community Preservation Act Committee	Luke (Member)
Complete Streets Committee	Luke
Deer Committee	Barney
Energy Task Force Committee	Nathan
Finance Committee	Kate
Household Recycling	Barney
Land Stewardship Committee	Luke
Long Term Capital Requirements – Bos Member	Kate (Member)
Minuteman Media Network	Alan
Municipal Facilities Committee – Bos Member	Kate (Member)
Traffic Safety Advisory Committee	Luke
Scholarship Advisory Committee	Barney
Veterans Committee	Alan

***Board of Selectmen Policy and Guideline Review:***

Kate Reid explained that this particular item will be included on all future meeting agendas going forward to assist the selectmen with completing its review of all adopted policies and to make necessary updates and to adopt new ones, such as a financial policy.

**Policy Regarding Personnel Change Requests**

All Personnel requests must be submitted to the Personnel Administrator no later than August 1st. This allows for adequate time for all Boards and/or Committees to act upon the request and ensure the financial aspect for current and/or future years can be evaluated by the Selectmen and Finance Committee during the budget development process for the fiscal year beginning the succeeding July 1st.

All requests must be submitted by an Appointing Authority or Board/Committee chair in writing with all supporting documents and using the Personnel Board's Position Request Form to the Personnel Administrator. Examples of Personnel requests include the following: request for approval of new positions, changes in hours, changes in job description, changes in position grade, etc. This includes changes that impact the current and/or future fiscal years.

All requests must be accompanied by a clear rationale and clearly documented supporting data. A need for additional hours may be due to new tasks being assigned to the position, increased activity documented over a sustained time period (permits, applications, etc.) which can be justified through documentation such as: (list to follow), a change in structure due to new programs, or a change in overall operating hours.

The Personnel Administrator will review the request and may request additional information if needed. If additional information has been requested but not received by the Personnel Administrator no action will take place. Once the Personnel Administrator feels the documentation is complete he/she will present the request to the Board of Selectmen for their review and determination of support. The Appointing Authority is encouraged to attend this meeting.

If the BOS finds there is potential merit in the request, the Personnel Administrator will forward the request and documentation with his/her recommendation to the Personnel Board within 15 calendar days of the BOS decision. (Affirmative action by the BOS at this stage does not assure anything but review by the Personnel Board.)

The Personnel Board will place the request on their agenda without undue delay.

The Personnel Board will hear the request and the recommendation of the Personnel Administrator. They will evaluate the request and make a determination. The Personnel Board may request, and the Department Chair or designee may offer, additional information. Should the Personnel Board take no action within thirty days after such meeting the Personnel Administrator will consider if the request should move forward.

If the request is approved by the Personnel Board the recommendation will be referred to the Finance Committee. All requests approved by the Personnel Board that have a financial impact are subject to budget availability and the concurrence of the Finance Committee. All Personnel Change Requests are subject to final approval by the Board of Selectmen.

Requests for additional hours due to an emergency or temporary need are not subject to this procedure and will be handled separately by the Personnel Administrator.

On the motion made by Nathan Brown and seconded by Luke Ascolillo, it was unanimously **VOTED** to approve the Personnel Change Requests Policy with the revision by the Personnel Board.

#### Policy #5, Transfer Station Stickers

Kate Reid explained that the Transfer Station Sticker Policy has not been updated since 1982 and does not reflect current operations and sticker fees.

Nathan Brown volunteered to update the Transfer Station Policy and present final draft for review and approval by the Board of Selectmen at a future meeting.

#### ***Review Collins Center Town Organizational Study Recommendations:***

The Board of Selectmen reviewed the Collins Center Report dated June 2012. The organizational study was designed to provide an assessment of the efficiency and effectiveness of Town operations, identifying strengths and improvement opportunities relating to organization, staffing, and management.

Kate Reid requested that the Board briefly review the "Summary of recommendations" found on Page 4 of the Collins Center Report to determine which items have been completed or not completed.

Completed/Needs to be updated.	✓ The Town should begin to develop, adopt, and implement a five-year IT Strategic Plan.
Completed (Assigned to Assessors)	✓ The Town should capitalize on its GIS asset to a much greater degree than is currently the case, and should begin the process, in the near term, by assigning “ownership” of the system to a specific department.
Completed	✓ The Town should purchase and install an automated information system for the COA that will collect data related to senior attendance at programs and activities.
Completed	✓ The Recreation Department should acquire a software package that records critical information regarding its program participants.
On-going	✓ The departments in Town Hall should enhance their web pages to provide residents with a wider variety of information, in addition to, in some cases, organizing the web pages in a more user-friendly manner. The departments located at Town Hall should ensure that all office hours are posted on their individual web pages. Further, the project team recommends that individuals be cross-trained in the basic operating elements of other departments in order to be able to assist visitors in cases in which departmental staff are absent from their work stations.
On-going	✓ The Finance Department should develop a financial plan that covers multiple years and evaluates the Town’s current and projected financial condition based on projected scenarios.
On-going	✓ The Board of Selectmen should assess the potential of strengthening the position of Town Administrator in order to consolidate daily supervision over operations and performance of staff.
Completed	✓ The Council on Aging and the Recreation Department should strengthen their cash handling
Not Supported	• The Town should consider the “insourcing” of the payroll function that is currently performed by a third-party provider. The estimated payback of five years makes the investment attractive if the payroll software has a useful life of at least this period of time.
Not Completed/ Needs to be evaluated	• The Town should consider the consolidation of the Carlisle Council on Aging and the Recreation Department, into a newly-formed Community Services Department.
Completed	✓ The Town should consider the creation of the position of Chief Information Officer in the Town, reporting to the Town Administrator.
Not supported / Needs to be evaluated again.	• The Town should consider the conversion of the Town Clerk position from an elected to an appointed one.



- |                                     |   |
|-------------------------------------|---|
| Not supported                       | <ul style="list-style-type: none"> <li>▪ The Town should consider relocating the departments of Building, Planning, Housing, Health and Conservation to the Highland Building on School Street creating a One Stop shop for permitting and plan review while also addressing space needs for multiple departments.</li> </ul> |
| On-going/<br>Succession<br>Planning | <ul style="list-style-type: none"> <li>• The Town should identify critical managers and employees who are nearing retirement age and begin the transfer of knowledge and skills through hiring employees at lower levels to work with these individuals.</li> </ul>   |

### ***Town Administrator's Report:***

#### **Carlisle Composting Program**

The Board of Selectmen met with Launa Zimmaro and Roberty Peary from the Carlisle Household Recycling Committee to announce that Carlisle will begin accepting “organics” (food scraps and other compostable materials) at the Transfer Station beginning Tuesday June 4, 2019. The Town of Carlisle has contracted Black Earth, a Massachusetts-based company dedicated to the sustainable processing of compostable materials into soil enriching compost.

Composting bins will be made available on Tuesday, Thursday and Saturday during the week. Black Earth scheduled to pick-up bins twice a week. The Household Recycling Committee thanked DPW Superintendent Gary Davis and the Town Administrator for their efforts in getting the program set-up.

Carlisle will be eligible to apply for a new and larger grant for 2019. Grant deadline is June 13th. This grant could potentially cover most of the cost of Black Earth for a year and some or all of additional public info/outreach materials.

#### **Award Contract - Complete Streets Engineering Services**

The Complete Streets working group has recommended Nitsch Engineering for the design/ engineering contract for the Town's Complete Streets projects in the amount of \$64,500.00.

The board requested to see a copy of the proposed contract between the Town of Carlisle and Nitsch Engineering for the Complete Streets Design, Land Surveying and Transportation Engineering Services.

#### **Terms of Agreement with Friends of Center Park Task Force**

Alison Saylor submitted an agreement between the Town and the Friends of the Center Park Task Force a registered 501(c) nonprofit organization through June 30, 2024 for review and approval by the Board of Selectmen. The agreement will grant permission for the group to plant and maintain the flowerbeds and to hold gardening classes at the park for five years. The Department of Public Works (DPW) will continue to provide snow removal, lawn mowing, town mulch, oversight of the irrigation system and all tree work for the Park.

Upon review of the draft agreement, it was agreed by the Board of Selectmen to amend the proposed agreement to incorporate mutual terms specifically no. 9.

9. *In the event the Town and the Friends mutually agree that the Task Force or the Friends are unable to maintain the garden beds, the beds and the landscape revert to the care of the DPW.*

### Award Contract - Licensed Site Professional (LSP) Services

Town Administrator Timothy Goddard requested that the Board of Selectmen award a contract with Wilcox & Barton, Inc., our LSP, for \$14,900. Town Meeting voted to provide \$75,000.00 to fund the remediation/mitigation efforts at the Fire Station due to the fuel tank petroleum release. If the expenses exceed this amount, the Board of Selectmen will be requested to amend the contract.

On the motion made by Nathan Brown and seconded by Luke Ascolillo, it was unanimously **VOTED** to approve the agreement for environmental consulting services with Wilcox & Barton, Inc. for testing and remediation at the Carlisle Fire Station.

### Master Plan RFP Evaluation Committee

A Request for Proposals (RFP) has been issued and advertised. Responses are due on June 28, 2019. Town Administrator /Chief Procurement Officer Timothy Goddard will be appointing an evaluation committee to rank the responses and recommend retaining a consultant. The evaluation committee will be comprised of :

- Two Master Plan Steering Committee members
- Two Planning Board members
- One Finance Committee member
- One Board of Selectmen member

Selectperson Barney Arnold volunteered as the Board of Selectmen appointed liaison to serve on this committee.

### ***Selectmen's Meeting Schedule:***

Tuesday, June 11, 2019

Tuesday, June 25, 2019

Tuesday, July 9, 2019

Tuesday, July 23, 2019

Tuesday, August 13, 2019 (L. Ascolillo not avail)

Tuesday, August 27, 2019

### **Minutes Approval:**

On the motion made by Nathan Brown and seconded by Luke Ascolillo, it was unanimously **VOTED** to approve the minutes of April 9, 2019 and April 23, 2019

### ***Executive Session MGL Ch. 30A, §21(a) paragraph (6)***

On the motion made by Nathan Brown and seconded by Luke Ascolillo, it was unanimously **VOTED** to enter into executive session pursuant to MGL Ch. 30A, §21(a) paragraph (6) to discuss strategy with the purchase, exchange, lease, or value of real property as an open meeting may have a detrimental effect on the Town's negotiating position and that afterwards the Board will not return to open session.

ROLL CALL VOTE: N. Brown-Aye, B. Arnold-Aye, L. Ascolillo-Aye, K. Reid-Aye, and A. Lewis-Aye

**List of documents presented at meeting:**

1. TimberNook "Nature is the ultimate sensory experience." Flyer & Pamphlet
2. Carlisle Energy Task Force Update
3. Online Survey - Moving the Fire Horn Tests to 12:00PM
4. May 28, 2019 BoS Meeting Packet



TimberNook  
Sensational Experiences

# LITTLE WILD ONES

## YEAR ROUND PROGRAM

Our popular year-round forest program that gets children playing outdoors and learning in the fall, spring, and winter months. Children enjoy “living and breathing” stories, diving deep into their imaginations, engineering in grand-scale play experiences, and so much more! They'll also get plenty of time to cook over an open fire and play for hours on end. Learning has never been more exciting!

3, 4 or 6 hour sessions available.

Designed for children ages 4-7 years old.

WHERE: Location Near You Fall 2019

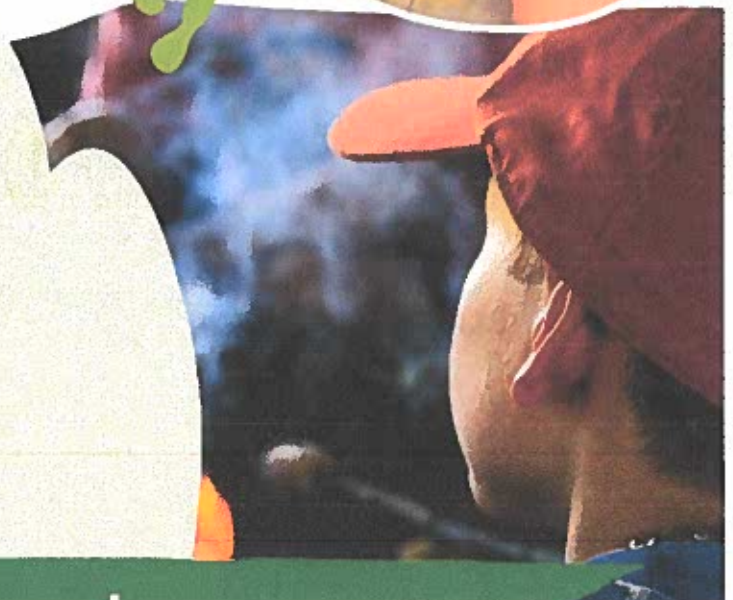
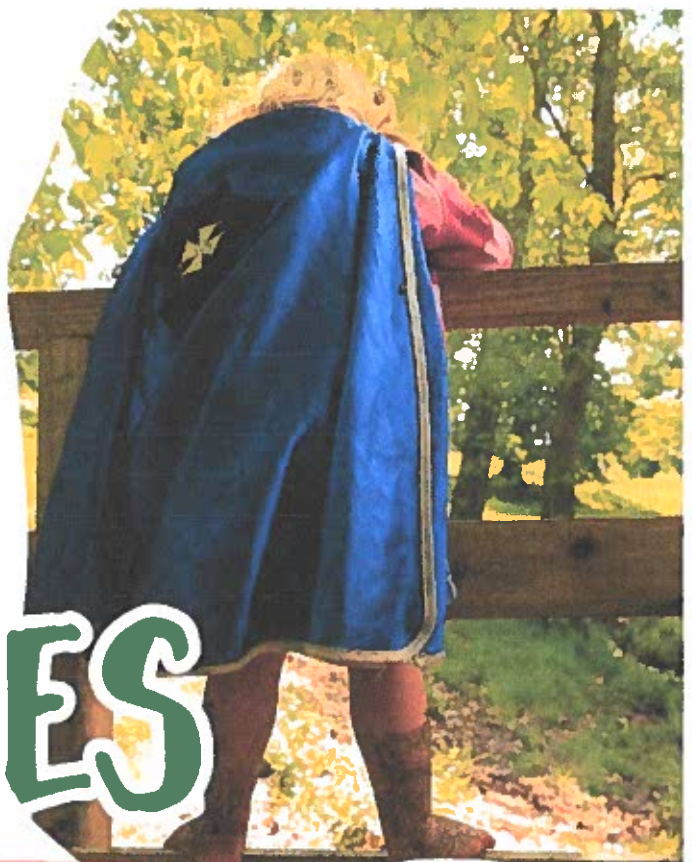
TO REGISTER: [www.timbernook.com](http://www.timbernook.com)

INPUT: Zip Code 01742

CONTACT: [sherry.kenin@timbernook.com](mailto:sherry.kenin@timbernook.com)

or

[skenin@minutemanarc.org](mailto:skenin@minutemanarc.org)





# Carlisle Energy Task Force Update

Presentation  
to the Carlisle Board  
of Selectmen  
by the Carlisle  
Energy Task Force

May 28, 2019



Carlisle Energy Task Force Update to BOS—May 28, 2019

2

## Agenda

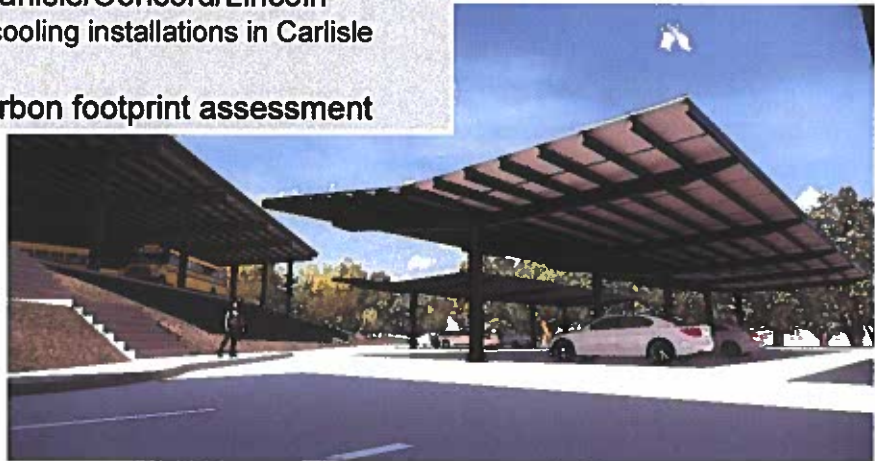
- **Key Accomplishments for FY 2019**
- **Key Challenges for FY 2020**
- **New Mission Statement**
- **Green Communities**
- **Town-Wide Greenhouse Gas (GHG) Emissions**
- **Options for Emissions Goals**
- **Summary**
- **Supporting Materials**



# Key Accomplishments for FY 2019

- Advanced Municipal Solar at Carlisle Public Schools
  - Expanded solar overlay district
  - Negotiated long-term lease with financial benefits <sup>a</sup>
- Executed \$172,000 Green Communities grant
  - 80% complete
- Concluded HeatSmart Carlisle/Concord/Lincoln
  - 18 clean heating and cooling installations in Carlisle
- Drafted Carlisle's first carbon footprint assessment

a) *Subject to additional negotiations*



# Key Challenges for FY 2020

**The CETF had a strong year, but faces some significant challenges for FY 2020.**



- Retiring membership:
  - 4 members leaving
  - 3 members continuing
  - 1 candidate new member
- Significantly expanded mission statement
- Need to support Master Plan process



# New Mission Statement

**On November 27, 2018, the BOS adopted a new, expanded mission statement for the CETF.**

1. Help Town establish goals and approaches ... with a focus on emissions
2. Recommend municipal bylaws/amendments
3. Help Town departments, residents, businesses, and organizations
4. Manage Town's relationship with MA Green Communities and other programs
5. **Create a baseline** to track and periodically evaluate community-wide energy use / cost / emissions



a) *Full mission statement attached*

## Green Communities

**Through Green Communities (GC) we have lowered municipal greenhouse gas emissions by about 26% (FY2018 vs. FY2009).<sup>b</sup>**

- We *may* have reached the *energy-savings* threshold to be eligible for greater levels of support
- If passed, *Green Plus Communities* may provide even greater opportunities<sup>c</sup>

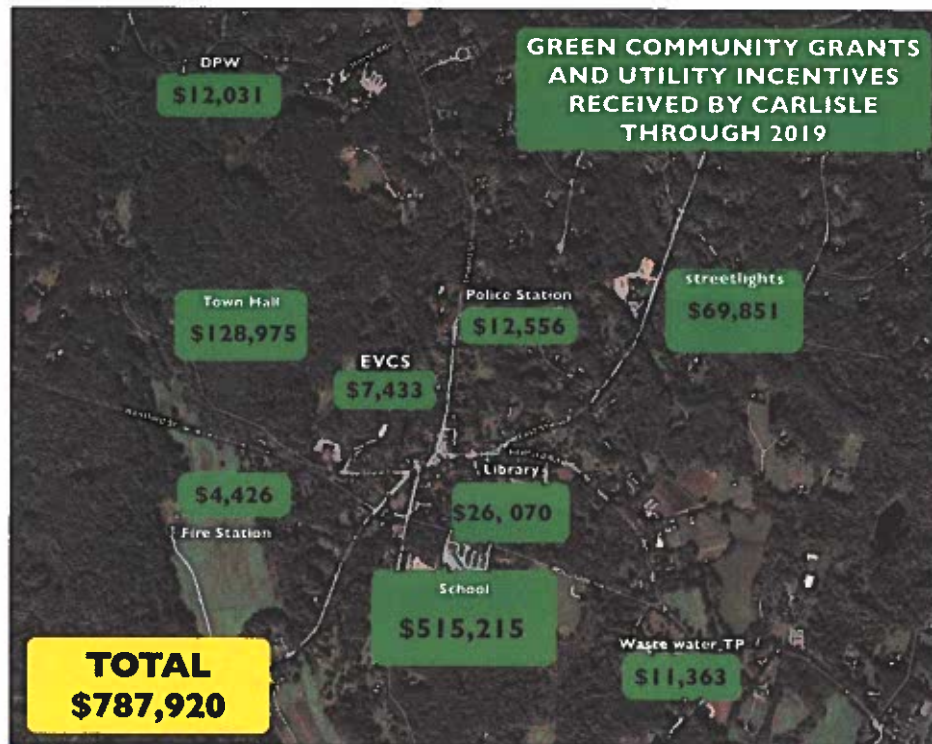


a) *The MA Dept. of Energy Resources, Green Communities Division provides grants to help municipalities reduce energy use and costs by implementing clean energy projects in municipal buildings, facilities, and schools. Carlisle has been a Green Communities member since 2011.*

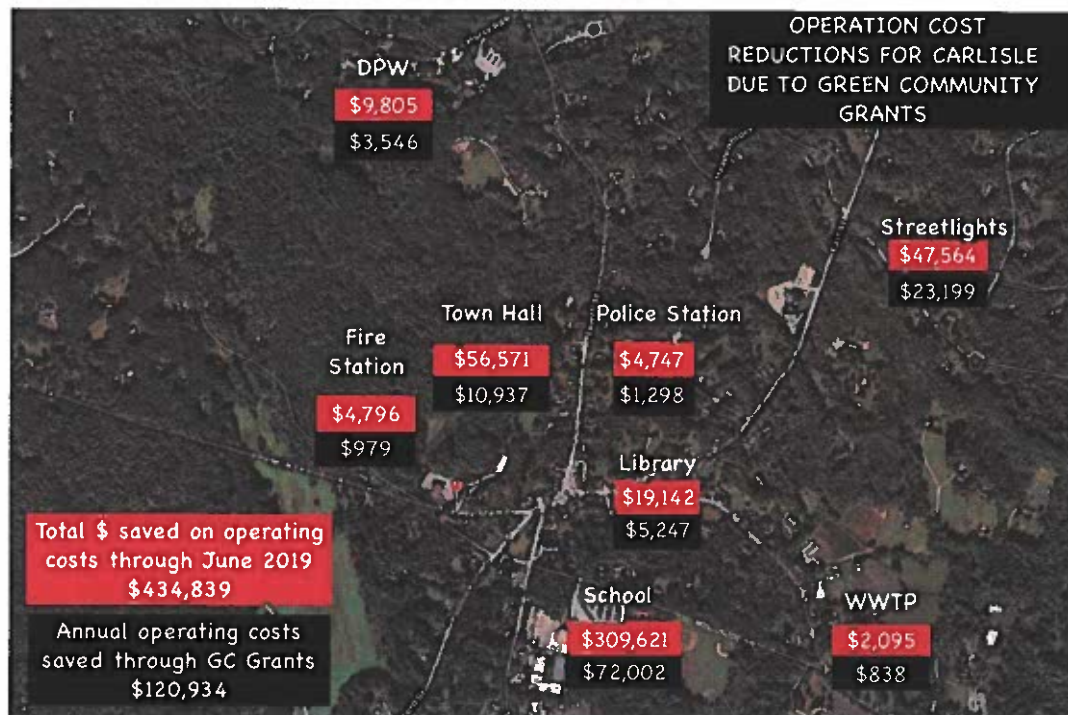
b) *From Mass Energy Insight (MEI) Database. Accessed 05-21-2019.*

c) *See MA Bills S.1987 and H.2841*

## Green Communities Grants/Incentives



## Green Communities Benefits





# Green Communities Support Needed

## To better leverage GC, we recommend that Town Hall:

- Manage GC, with support from the CETF
  - Maintain MEI database
  - Serve as primary point of contact with DOER
  - Coordinate grant applications
  - Prepare and submit quarterly and annual reports
- Encourage collaboration among our facilities manager, the Municipal Facilities Committee, and the CETF
- Support improved website presence to communicate accomplishments



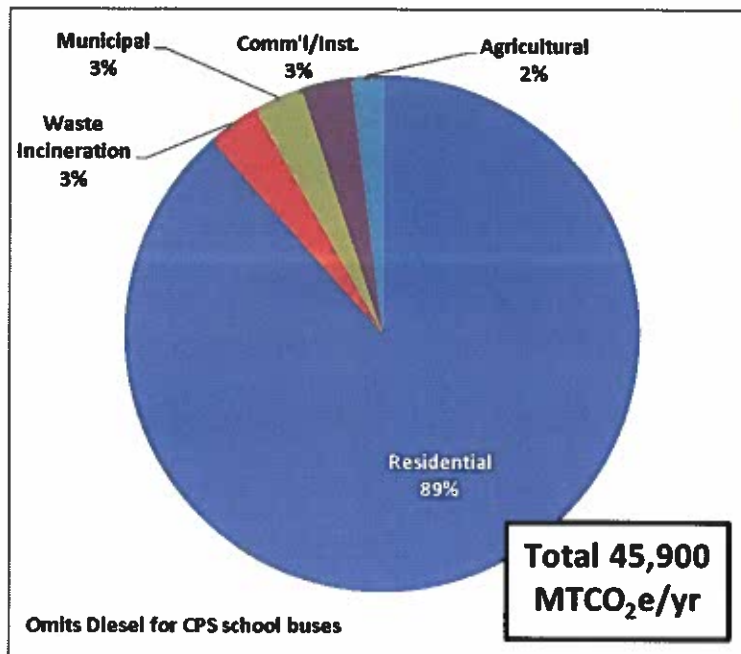
# Carlisle Emissions and Goals

## The CETF established a Goals Subcommittee to investigate potential emissions goals for Carlisle.

- Developed Carlisle's first town-wide emissions estimate
- Established options for potential goals
- Outlined conceptual pathway to achieve goals
- Documented above in draft report (50 pages, plus supporting spreadsheets)
- Working with Master Plan Steering Committee to get community input



# 2017 Carlisle Emissions



**Preliminary Data**

**2018 Community Choice Power Supply lowers emissions by ~14% (6,700 MTCO<sub>2</sub>e/yr.)**

- a) Includes most vehicles
- b) Excludes indirect emissions associated with purchased goods and services
- c) Estimates from Goals Subcommittee of the CETF.

## Options for Emissions Goals

Option 1	Option 2	Option 3
<b>Align with MA Global Warming Solutions Act of 2008</b>	<b>Align with Intergovernmental Panel on Climate Change (2018)</b>	<b>No quantified emissions goals</b>
<ul style="list-style-type: none"> <li>5% avg. annual reduction</li> <li>By 2050, 80% town-wide reduction in Greenhouse Gas (GHG) emissions relative to 1990 emissions <sup>a, b</sup></li> <li>By 2030, 40% town-wide reduction</li> </ul>	<ul style="list-style-type: none"> <li>10% avg. annual reduction</li> <li>By 2050, 95% town-wide reduction in GHG emissions relative to 2017 <sup>a, c</sup></li> <li>By 2030, 65% town-wide reduction</li> </ul>	
<p>a) "Town-wide emissions" include residential, commercial, municipal, and agricultural emissions from both transportation and the built environment.</p> <p>b) Consistent with the year-2050 goal of the MA Global Warming Solutions Act of 2008.</p> <p>c) Per IPCC SR1.5, October 8, 2018, limiting warming to 1.5°C implies reaching net-zero emissions around 2050.</p>		

**IPCC**  
INTERGOVERNMENTAL  
PANEL ON  
CLIMATE CHANGE





# Goals Next Steps

- Vet draft Goals Report
- Assist Master Plan Steering Committee with soliciting community input
- Depending on community input:
  - Select goals
  - Refine conceptual pathway
    - Energy Efficiency*
    - Electrification*
    - Renewable Generation*
    - Carbon Sequestration*
  - Document in Master Plan
  - Launch program!



## Goals Support Needed

***If Carlisle establishes emissions goals, carbon reduction must become central to all municipal decision-making.***

- Support implementation plan for emissions goals
- Change culture in all municipal departments:
  - Incorporate environmental sustainability into all decisions
  - Establish clear accountability
- Post tracking and progress information clearly and vividly



## Summary

### **The CETF seeks more support to fulfill its new mission statement.**

- Growing opportunities to leverage Green Communities (and possibly other programs)
- Opportunity to serve as a model small community for tracking and pursuing emissions goals



## Supporting Materials

# New Mission Statement

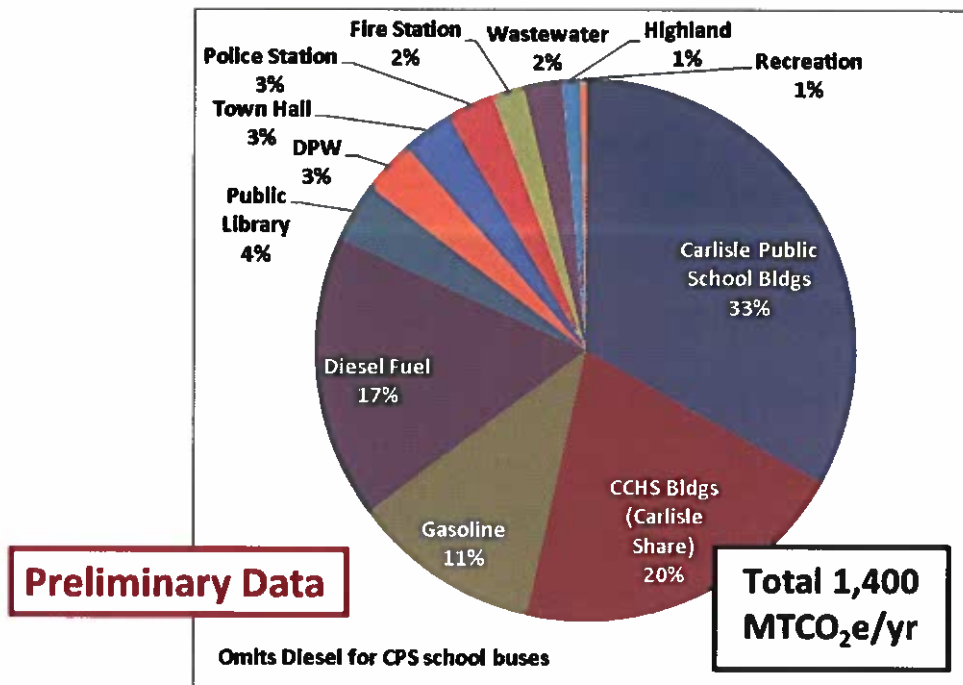
## CETF Mission Statement as adopted Nov. 27, 2018.

1. Help the Town establish goals and approaches for lowering energy use and expanding the use of renewable energy, with a focus on lowering greenhouse gas emissions.
2. Recommend to the Select Board municipal bylaws and amendments to the bylaws that reduce energy use, and encourage the use and generation of renewable energy.
3. Help Town departments, residents, businesses, and organizations learn about, evaluate, and implement measures to lower energy use, and expand use of renewable energy.
4. Manage the Town's relationship with the Massachusetts Green Communities and other renewable-energy and energy-efficiency programs, including applying for grants, managing the grant projects, and reporting to the grant programs.
5. Create a baseline to track and periodically evaluate community-wide energy use, cost, and associated greenhouse gas emissions. "Community-wide" energy use includes residential, municipal, commercial/organizational, and agricultural uses for both transportation and stationary applications.

## 2018 GC Project Status

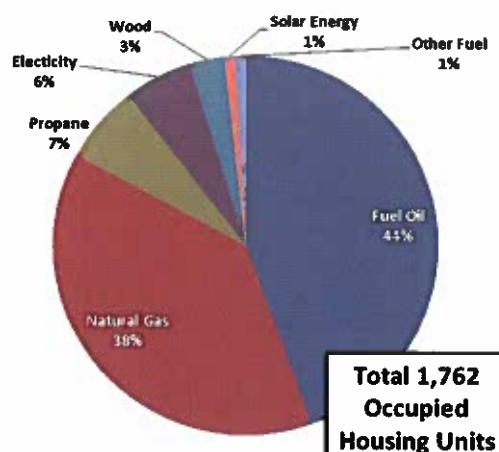
Building	Project	Award	Status
CPS--Spaulding	HVAC Improvements, Sensors, & Controls	\$6,971	Nearly complete
CPS	LED Lighting/Controls	\$87,745	Complete with \$698 unspent
CPS--Gym	De-Stratification Fans	\$14,200	DOER approved funds transfer; Work being scheduled
Town Hall	EC Motor and Control Valves	\$31,117	Complete—using CETF funds to tie into BMS
DPW	LED Lighting	\$9,982	Complete
Police Vehicle	Ant-Idling device	\$14,200	Complete with \$13,995 unspent--transferred \$10,075 to De-Strat Fans project
Town Hall (to be confirmed)	EV Charging Station	\$7,433	Discussing installation details with Eversource
<b>Totals</b>		<b>\$171,968</b>	<b>\$128,671 spent</b>

## 2017 Municipal Emissions

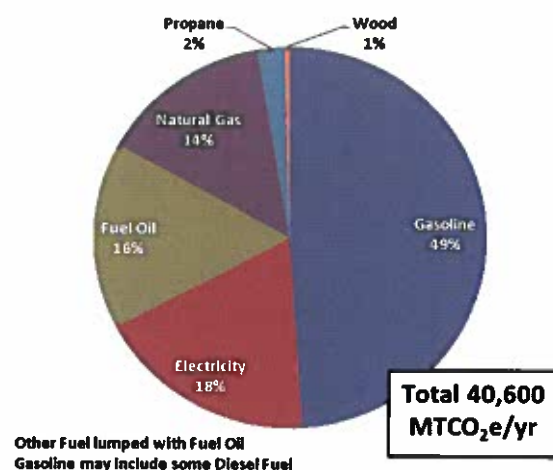


## Residential Emissions

**2016 Occupied Housing Units by Primary Heating Fuel**



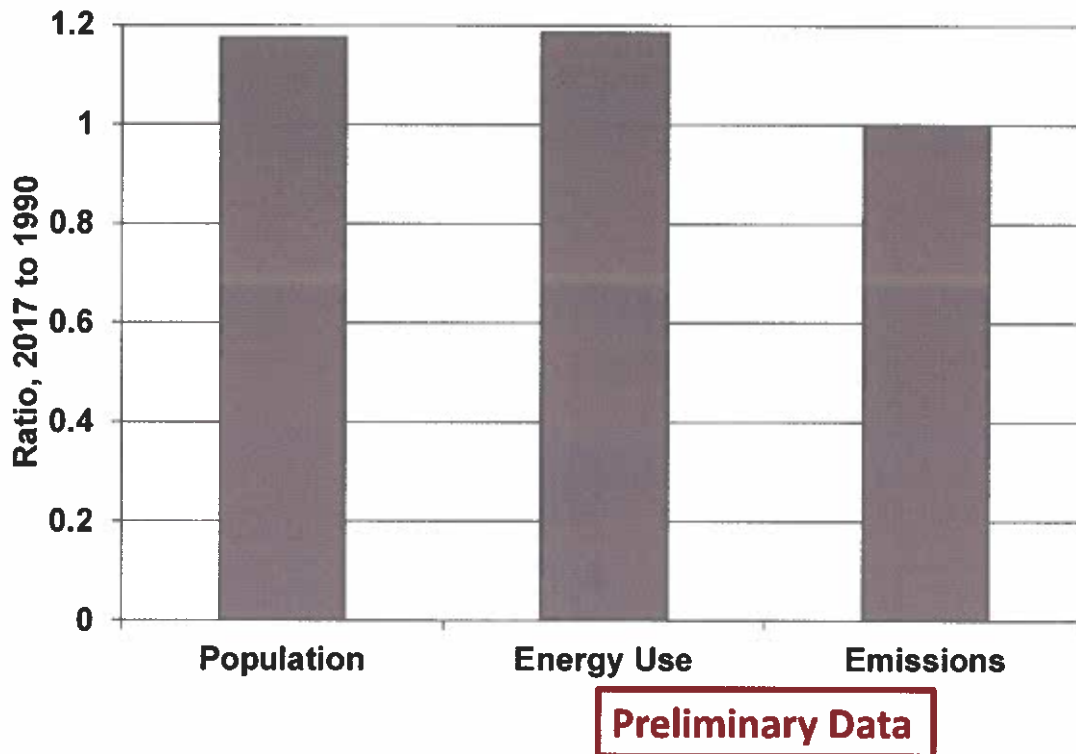
**2017 Residential Emissions by Fuel Type, Including Vehicles**



**Preliminary Data**

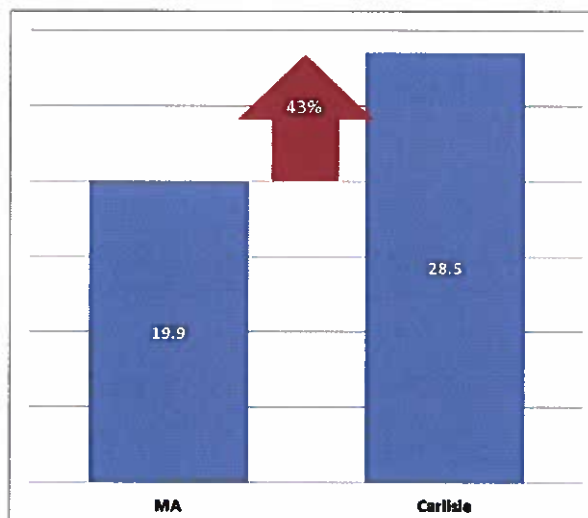


## Residential Emissions Trends

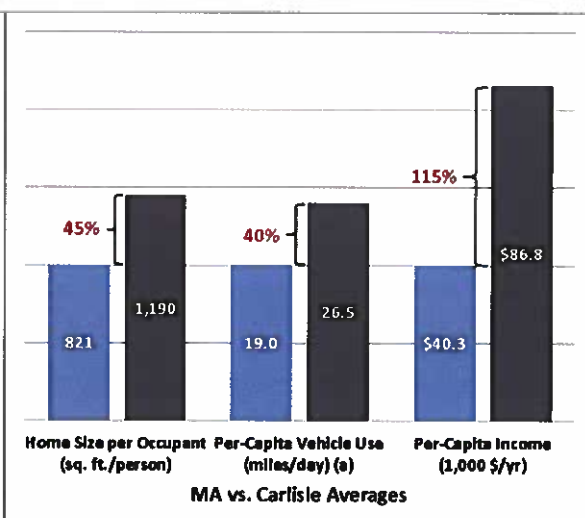


## Comparisons—MA vs. Carlisle

Per-Capita Direct and Indirect Emissions (MTCO<sub>2</sub>e/yr.)



Other Per-Capita Metrics

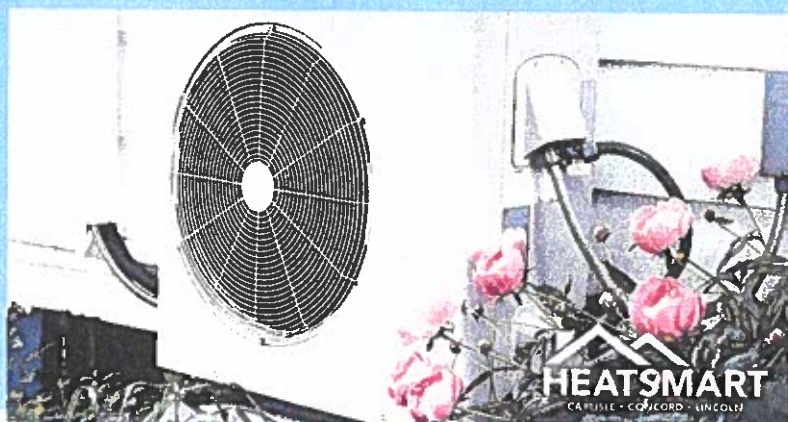


a) Household vehicle use divided by occupants per household



# CLIMATE-FRIENDLY HOME HEATING & COOLING WITH HEAT PUMPS

**TWO COMMUNITY SESSIONS  
COME TO EITHER ONE  
AND BRING YOUR FRIENDS**



## CONCORD

**1 SATURDAY, JUNE 8TH  
1:30 - PRESENTATION  
AND Q&A**

Concord Carlisle High School  
Learning Commons (2nd floor)  
500 Walden St., Concord MA 01742

## WAYLAND

**2 TUESDAY, JUNE 11TH  
7:00 - PRESENTATION  
AND Q&A**

Wayland Public Library  
5 Concord Rd  
Wayland MA 01778

Learn about cold climate air-source heat pumps, geothermal systems and heat pump water heaters, intended for those who:

- want to learn why electricity for heating/cooling is environmentally friendly
- don't have air conditioning but want it before summer temperatures arrive
- have an old heating system (e.g., more than 15 years ) and want to know about replacement options for oil, propane or gas

Meet installers to learn what systems might work for your home.  
Find out about the **financial** incentives available to you.  
Hear from **neighbors** who have installed systems and local installers.  
Meet your **community coach** who can help you sort it all out.



Events hosted by HeatSmart Carlisle/Concord/Lincoln and EnergizeWayland.  
For more information, please visit [HeatSmartCCL.org](http://HeatSmartCCL.org) and [EnergizeWayland.org](http://EnergizeWayland.org).

